

### **What is Claimed is:**

1. A patch plug for fastening a communication wire, comprising:

a shell having a housing space which has one end to receive the communication wire into the housing space and another end having a plurality of insertion slots  
5 formed thereon; and

a plurality of electrical conductors located in the insertion slots having respectively one end formed a contact section exposed outside the housing space and another end formed a piercing end located in the housing space, the piercing end being connected to the communication wire, the electrical conductors being laid in  
10 pairs and spaced from one another according to different electricity, and being confined in the insertion slots in such a way that the interval of each pair of the electrical conductors is smaller than the interval of different pairs of the electrical conductors, and at least one pair of the electrical conductors having the piercing ends crossed to be abutting the piercing end of the same electricity of the electrical  
15 conductors of a neighboring pair to generate capacitance compensation.

2. The patch plug of claim 1, wherein the shell includes a base and a cap.
3. The patch plug of claim 1, wherein the piercing ends of the electrical conductors that have the same electricity are close to each other and in parallel with each other spatially to generate the capacitance compensation.
- 20 4. The patch plug of claim 3, wherein the piercing ends that are close to each other have a distal end forming an extension which is in parallel with each other spatially and close to each other to generate the capacitance compensation.
5. The patch plug of claim 4, wherein the extensions are in parallel on a same horizontal surface.
- 25 6. The patch plug of claim 5, wherein the extensions are on the same horizontal surface

and in parallel transversely.

7. The patch plug of claim 5, wherein the extensions are on the same horizontal surface and in parallel longitudinally.
8. The patch plug of claim 4, wherein the extensions are in parallel on a same vertical  
5 surface.
9. The patch plug of claim 1, wherein the electrical conductors have an extension proximate a middle portion thereof that is in parallel spatially and close to each other to generate the capacitance compensation.
10. The patch plug of claim 9, wherein the extensions are in parallel on a same  
10 horizontal surface.
11. The patch plug of claim 10, wherein the extensions are on the same horizontal surface and in parallel transversely.
12. The patch plug of claim 10, wherein the extensions are on the same horizontal surface and in parallel longitudinally.
13. The patch plug of claim 9, wherein the extensions are in parallel on a same vertical  
15 surface.